



FIG.1A

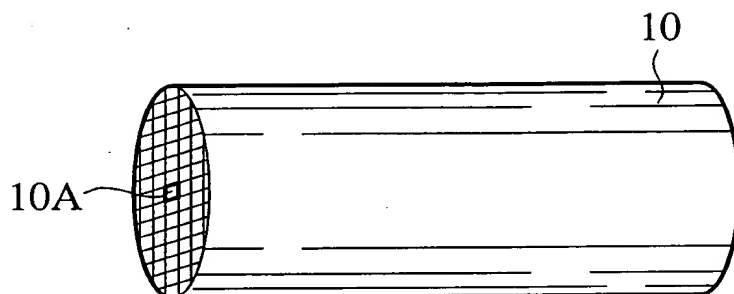


FIG.1B

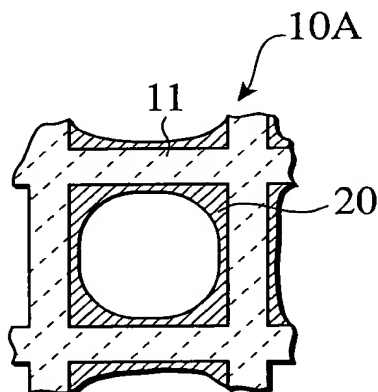


FIG.2

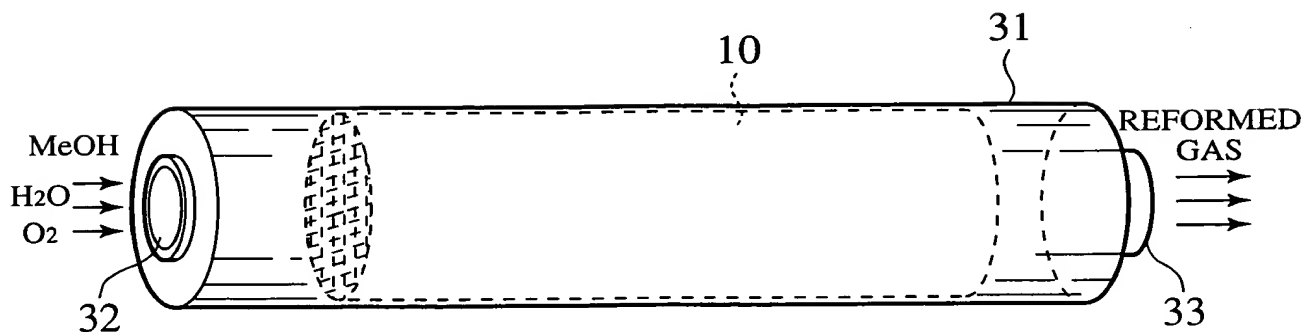
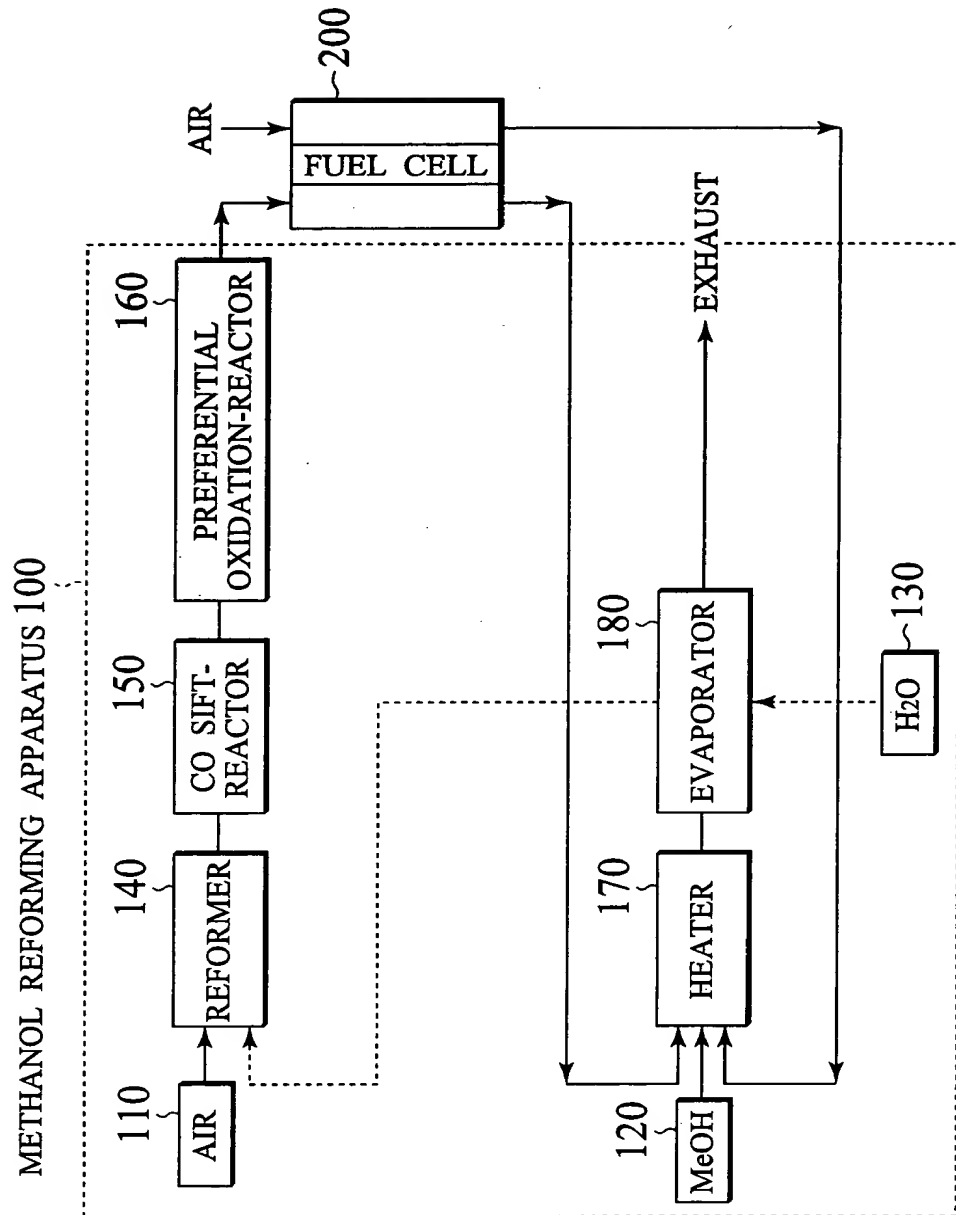




FIG.3





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FIG.4

Table

Example	Catalyst No	Composition of catalyst supported material/(support)	Pd:Zn (mol ratio)	Burning		Reducing		Reformation		CO concentration (%)
				temperature (°C)	rate (%)	temperature (°C)	rate (%)	temperature (°C)	rate (%)	
example 1	catalyst 1	5%Pd-3.06%Zn/(68%CeO <sub>2</sub> -32%ZrO <sub>2</sub> )	1:1	500	98	500	98	500	98	2.5
example 2	catalyst 2	5%Pd-6.12%Zn/(68%CeO <sub>2</sub> -32%ZrO <sub>2</sub> )	1:2	500	99.8	500	99.8	500	99.8	2.1
example 3	catalyst 3	5%Pd-30.6%Zn/(68%CeO <sub>2</sub> -32%ZrO <sub>2</sub> )	1:10	500	99.3	500	99.3	500	99.3	1.1
example 4	catalyst 4	5%Pd-6.12%Zn/CeO <sub>2</sub>	1:2	500	98.8	500	98.8	500	98.8	2.2
example 5	catalyst 5	5%Pd-6.12%Zn/ZrO <sub>2</sub>	1:2	500	99.7	500	99.7	500	99.7	2.3
example 6	catalyst 6	5%Pd-6.12%Zn/(20%CeO <sub>2</sub> -80%ZrO <sub>2</sub> )	1:2	500	99.5	500	99.5	500	99.5	2.2
example 7	catalyst 7	5%Pd-6.12%Zn/(68%CeO <sub>2</sub> -32%ZrO <sub>2</sub> )	1:2	400	98.3	400	98.3	400	98.3	2.3
example 8	catalyst 8	5%Pd-6.12%Zn/(68%CeO <sub>2</sub> -32%ZrO <sub>2</sub> )	1:2	600	98.5	600	98.5	600	98.5	2.1
comparative example 1	catalyst 9	5%Pd/(68%CeO <sub>2</sub> -32%ZrO <sub>2</sub> )		500	92	500	92	500	92	10.5
comparative example 2	catalyst 10	Cu-ZnO		400	85	400	85	400	85	1.1
comparative example 3	catalyst 11	5%Pd/ZnO	1:20	500	89	500	89	500	89	2.4